1. (currently amended) A disk drive controller executing logic including:

establishing an active region on a disk in a disk drive associated with the controller, the active region being immediately under a motion limiting element that protrudes toward the disk such that corresponding to a region of the disk wherein effects of mechanical shock to the disk drive during read and/or write operations are mitigated in the active region compared to regions on the disk other than the active region; and

in response to write commands, always writing storing data on to the active region.

2. (currently amended) The controller of Claim 1, wherein the logic further comprises:

moving data from the active region to an archive region based on at least one of: recency of last access of the data, whether a time for archiving has occurred, and or whether a motion sensing threshold has been reached.

3. (currently amended) The controller of Claim 1, wherein the active region is at least one of: an outer annular region of the disk, and or an inner annular region of the disk.

4. (original)   The controller of Claim 2, wherein data is moved from the archive region to the active region if the data previously has been accessed within a predetermined period.

5. (canceled).

BEST AVAILABLE COPY

CASE NO.: HSJ920030121US1   PATENT
Serial No.: 10/660,898   Filed: September 11, 2003
April 24, 2006
Page 3

6. (original)   The controller of Claim 2, wherein data is moved from the archive region to the

active region only in the absence of motion of the disk drive below a threshold.

7. (currently amended) A hard disk drive, comprising:

motion limiting means protruding toward a disk for establishing an active region on the disk

directly below the motion limiting means; , the active region corresponding to a region where the

disk drive is protected from the effects of mechanical shock as compared to other regions of the disk

drive and

means for, in response to write command, always writing data to the active region.

8. (original)   The hard disk drive of Claim 7, wherein the means for writing writes data from the

archive region to the active region based on frequency and/or recency of access of the data.

9. (currently amended) The hard disk drive of Claim 7, further comprising:

means for moving data from the active region to an archive region based on at least one of:

recency of last access of the data, whether a time for archiving has occurred, and or whether a

motion sensing threshold has been reached.

10. (original)   The hard disk drive of Claim 7, wherein the active region is an outer annular region

of the disk.

BEST AVAILABLE COPY

11. (original)   The hard disk drive of Claim 9, wherein data is moved from the archive region to the active region if the data previously has been accessed within a predetermined period.

12. (canceled).

13. (currently amended)   A hard disk drive, comprising:

  at least one disk having ~~defining~~ an active region and an archive region;

  at least one controller controlling read and write operations on the disk; and

  at least one motion limiting element <u>being directly above and protruding toward</u> ~~defining~~ the active region<u>, the controller selectively moving data from the archive region to the active region without regard for the type of data being moved.</u>

14. (original)   The hard disk drive of Claim 13, wherein the active region corresponds to a region of the disk wherein effects of mechanical shock to the disk drive during read and/or write operations are mitigated compared to the archive region.

15. (original)   The hard disk drive of Claim 13, wherein the controller stores data in the active region based on frequency and/or recency of access of the data.

BEST AVAILABLE COPY

16. (currently amended)   The hard disk drive of Claim 13, wherein the controller moves data

from the active region to the archive region based on at least one of: recency of last access of the data,

whether a time for archiving has occurred, ~~and~~ <u>or</u> whether a motion sensing threshold has been reached.

17. (currently amended)   The hard disk drive of Claim 13, wherein the active region is at least

one of: an outer annular region of the disk, ~~and~~ <u>or</u> an inner annular region of the disk.

18. (original)   The hard disk drive of Claim 13, wherein data is moved from the archive region to

the active region if the data has been accessed within a predetermined period.